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| APPLICATION NO. |       | FILING DATE                  | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |  |
|-----------------|-------|------------------------------|----------------------|---------------------|-----------------|--|
| 10/038,782      |       | 12/31/2001                   | Roger E. Frech       | OU 3721.1           | 4101            |  |
| 321             | 7590  | 07/09/2004                   |                      | EXAMINER            |                 |  |
|                 |       | ERS LEAVITT ANI<br>AN SQUARE | CANTELMO, GREGG      |                     |                 |  |
| 16TH FLO        |       | ANOQUARE                     |                      | ART UNIT            | PAPER NUMBER    |  |
| ST LOUIS,       | MO 63 | 102                          |                      | 1745                | 1745            |  |

DATE MAILED: 07/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

|  |  |   | $\sim \mathcal{N}$ |
|--|--|---|--------------------|
|  | Application No.  | Applicant(s)  |                    |
|  | 10/038,782   | FRECH ET AL.  | -                  |
| Office Action Summary  | Examiner   | Art Unit  |                    |
|  | Gregg Cantelmo   | 1745  |                    |
| The MAILING DATE of this communication ap<br>Period for Reply  | pears on the cover sheet   | with the correspondence addr  | ess                |
| A SHORTENED STATUTORY PERIOD FOR REPL<br>THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a req.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statur. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  - Status | .136(a). In no event, however, may<br>oly within the statutory minimum of t<br>I will apply and will expire SIX (6) M<br>te, cause the application to become | a reply be timely filed  hirty (30) days will be considered timely.  ONTHS from the mailing date of this comr  ABANDONED (35 U.S.C. § 133). | munication.        |
| 1) Responsive to communication(s) filed on 20 A  | April 2004.  |   |                    |
|  | s action is non-final.   |   |                    |
| 3) Since this application is in condition for allowed  | ance except for formal ma  | atters, prosecution as to the m   | nerits is          |
| closed in accordance with the practice under   |  |   |                    |
| Disposition of Claims  |  |   |                    |
| 4)⊠ Claim(s) <u>1-77</u> is/are pending in the application   | 1  |   |                    |
| 4a) Of the above claim(s) is/are withdra   |  |   |                    |
| 5) Claim(s) is/are allowed.  | without consideration.   |   |                    |
| 6) Claim(s) is/are rejected.   |  |   |                    |
| 7) Claim(s) is/are objected to.  |  |   |                    |
| 8) Claim(s) 1-77 are subject to restriction and/or   | election requirement   |   |                    |
|  | 4  |   |                    |
| Application Papers   |  |   |                    |
| 9) The specification is objected to by the Examination   |  |   |                    |
| 10) The drawing(s) filed on is/are: a) acc   |  |   |                    |
| Applicant may not request that any objection to the  |  | ` '   |                    |
| Replacement drawing sheet(s) including the correct   |  |   |                    |
| 11) The oath or declaration is objected to by the E  | xaminer. Note the attach   | ed Office Action or form PTO-   | ·152.              |
| Priority under 35 U.S.C. § 119   |  |   |                    |
| 12) Acknowledgment is made of a claim for foreigr<br>a) All b) Some * c) None of:  |  | § 119(a)-(d) or (f).  |                    |
| 1. Certified copies of the priority document   |  |   |                    |
| 2. Certified copies of the priority documen  |  |   |                    |
| 3. Copies of the certified copies of the price   | rity documents have bee  | n received in this National Sta   | age                |
| application from the International Burea   | u (PCT Rule 17.2(a)).  |   |                    |
| * See the attached detailed Office action for a list   | of the certified copies no   | ot received.  |                    |
|  |  |   |                    |
| Attachment(s)  |  |   |                    |
| ) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)   |  | Summary (PTO-413)<br>o(s)/Mail Date   |                    |
| Notice of Draitsperson's Patent Drawing Review (P10-948)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)     Paper No(s)/Mail Date   |  | Informal Patent Application (PTO-15   | i2)                |
| Patent and Trademark Office OL-326 (Rev. 1-04) Office A  | ction Summany  | Part of Donor No /Maril Date  | 0700000:           |
| OTICE A  | ction Summary  | Part of Paper No./Mail Date (   | J/082004           |

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## Response to Amendment

- 1. In response to the amendment received April 20, 2004 and due to the numerous species and embodiments for the various elements in the claims:
  - a. The prior art rejections of record are withdrawn.
  - b. Due to the numerous disclosed and claimed species for the various constituents of the claims, the claims have been subjected to election of ultimate species as set forth herein.

## Election/Restrictions

2. This application contains claims directed to the following patentably distinct species of the claimed invention:

In claim 1-39 Applicant is required to elect an ultimate species for the polymer, cross-linker and metal salt.

If applicant elects the polymer as defined in claims 10-19, claim 10 is further subject to election of an ultimate species which is attached to the nitrogen.

Note that in electing a species for the polymer, some of the dependent claims to alternative non-elected species polymers will be withdrawn from consideration (claims 5-18, 30-31). Further in electing a particular metal salt, some of the dependent claims to alternative non-elected species metal salts will be withdrawn from consideration (claims 32-36).

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

3. This application contains claims directed to the following patentably distinct species of the claimed invention:

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In claims 19-29, Applicant is required to elect an ultimate species for the swelling solvent.

Note that in electing a species for the swelling solvent, some of the dependent claims to alternative non-elected species swelling solvents will be withdrawn from consideration (claims 19-29).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over

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the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

4. This application contains claims directed to the following patentably distinct species of the claimed invention:

In claim 40-47 Applicant is required to elect an ultimate species for the polymer, cross-linker and solvent moiety.

If applicant elects the polymer as defined in claims 44-46, claim 44 is further subject to election of an ultimate species which is attached to each nitrogen.

Note that in electing a species for the polymer, some of the dependent claims to alternative non-elected species polymers will be withdrawn from consideration (claims 41-46). Further in electing a particular metal salt, some of the dependent claims to alternative non-elected species metal salts will be withdrawn from consideration (claims 47 and 48).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 40 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

5. This application contains claims directed to the following patentably distinct species of the claimed invention:

In claim 49-51 Applicant is required to elect an ultimate species for the polymer and cross-linker.

Note that in electing a species for the polymer, some of the dependent claims to alternative non-elected species polymers will be withdrawn from consideration (claims 51-52).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 49 is generic.

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Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

6. This application contains claims directed to the following patentably distinct species of the claimed invention:

In claim 53-56 Applicant is required to elect an ultimate species for the polymer, cross-linker and solvent moiety.

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Note that in electing a species for the polymer, some of the dependent claims to alternative non-elected species polymers will be withdrawn from consideration (claims 54-56).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 53 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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7. This application contains claims directed to the following patentably distinct species of the claimed invention:

In claim 57-60 Applicant is required to elect an ultimate species for the polymer, cross-linker and either a particular dissolved or dispersed metal salt..

Note that in electing a species for the polymer, some of the dependent claims to alternative non-elected species polymers will be withdrawn from consideration (claims 58-60).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 57 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record

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showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

8. This application contains claims directed to the following patentably distinct species of the claimed invention:

In claim 61-65 Applicant is required to elect an ultimate species for the polymer film, metal ions, cross-linker and ion pair.

Note that in electing a species for the polymer, some of the dependent claims to alternative non-elected species polymers will be withdrawn from consideration (claims 62-65).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 61 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

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are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

9. This application contains claims directed to the following patentably distinct species of the claimed invention:

In claim 70-77, Applicant is required to elect an ultimate species for the polymer, cross-linker and ion pair.

Note that in electing a species for the polymer, some of the dependent claims to alternative non-elected species polymers will be withdrawn from consideration (claims 71-73). Note that in electing a species for the cross-linker, some of the dependent claims to alternative non-elected species cross-linkers will be withdrawn from consideration (claims 74-77).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 70 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims

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readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

10. If the elected species of each independent claim are not identical, insofar as the polymer, metal salt, ion pair, swelling solvent, cross-linker are different species in the various independent claims, the claims will further be subject to restriction to a particular species. For example, if Applicant elects the polymer of claim 1 to be poly(alkylamine) but then selects the polymer of claim 66 to be a polymer other than the same polymer of claim 1, then Applicant will be required to elect either claim 1 or claim 66 as to a particular species. In short, Applicant is advised to elect the same common species for each independent claim to ensure consideration of all claims.

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11. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregg Cantelmo whose telephone number is (571) 272-1283. The examiner can normally be reached on Monday to Thursday from 9 a.m. to 6 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pat Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. FAXES received after 4 p.m. will not be processed until the following business day. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gregg Cantelmo

Art Unit: 1745

Primary Examiner Art Unit 1745

gc

July 8, 2004